1 Checking speedometer vehicle speed sensor (G22)

Notes:

- *Sun VAT 40 or Fluke 83*
- *Connector Test Kit VW 1594*
- *Valid wiring diagram*

1.1 Checking speedometer vehicle speed sensor (G22)

1.1.1 Before starting troubleshooting, battery negative terminal must be securely tighted.

1.1.2 Test conditions:

- Coding of instrument cluster has to correspond to vehicle typ and its equipment, if necessary instrument cluster will have to be coded, ⇒ Rep.Group 27

1.1.3 Get ready for troubleshooting:

- Switch OFF ignition and all electric consumers.
- Remove lower instrument frame on drivers side, ⇒ Rep. Group 70

1.1.4 After troubleshooting please check the speedometer.

Check impulse for speedometer vehicles speed sensor (G22)	
- Jack up vehicle on the front (one front wheel must be allowed to rotate freely) - Disconnect T32a,32-pin connector (blue) from instrument cluster - Set measuring range selector from Fluke 83 on - Connect red test-lead point of disconnected 32-pin connector, terminal 28, connect black test-lead point to body ground - Rotate front wheel and take care of sound signals	
Sound signal NOT OK	4 sound signals per rotation

Vehicle speed sensor and wire connection OK. Further troubleshooting will take place as on board diagnostic (OBD) of instrument cluster ⇒ Rep. Group 01

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NO sound signal

Less than 4 sound signals

Mechanicle fault in transmission

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Check wire connection of speedometer vehicle speed sensor (G22)	
- Set measuring range selector of Fluke 83 on - Disconnect speedometer vehicle speed sensor from transmission - Connect red test-lead point with disconnected 32-pin connector, terminal 28 - Connect black test-lead point of disconnected speedometer vehicle speed sensor with terminal 2	
NO sound signal	sound signal

Check wire according on wiring diagram

Check wire connection of speedometer vehicle speed sensor (G22)	
- Set measuring range selector of Fluke 83 on - Connect red test-lead point of disconnected speedometer vehicle speed sensor, terminal 3 - Connect black test-lead point with body ground	
NO sound signal	sound signal

Check wire according on wiring diagram

Replace speedometer vehicle speed sensor (G22)

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